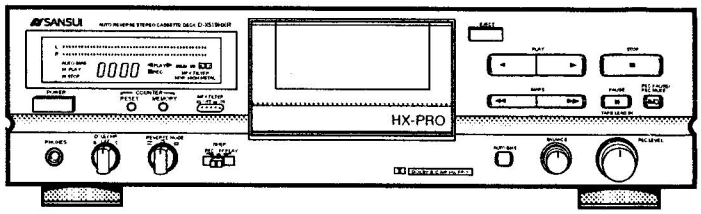
SANSUI

SERVICE MANUAL

D-X419HX
D-X519HXR



STEREO CASSETTE DECK

CAUTION

1. Parts identified the ⚠ symbol on the schematic diagram and the parts list are critical for safety.
   Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current for resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

Notice

- The symbols, UL, CSA, SS, EU and XX on the Parts list and the schematic diagram mean followings respectively.
  - UL ..... Manufactured for U.S.A. market. (Underwriters Laboratories approved model.)
  - CSA ..... Manufactured for Canadian market.
  - SS ..... Manufactured for Saudi Arabian market.
  - EU ..... Manufactured for European market.
  - XX (EXPORT) .... Standard Version.
  - NON MARK ..... Common Parts.

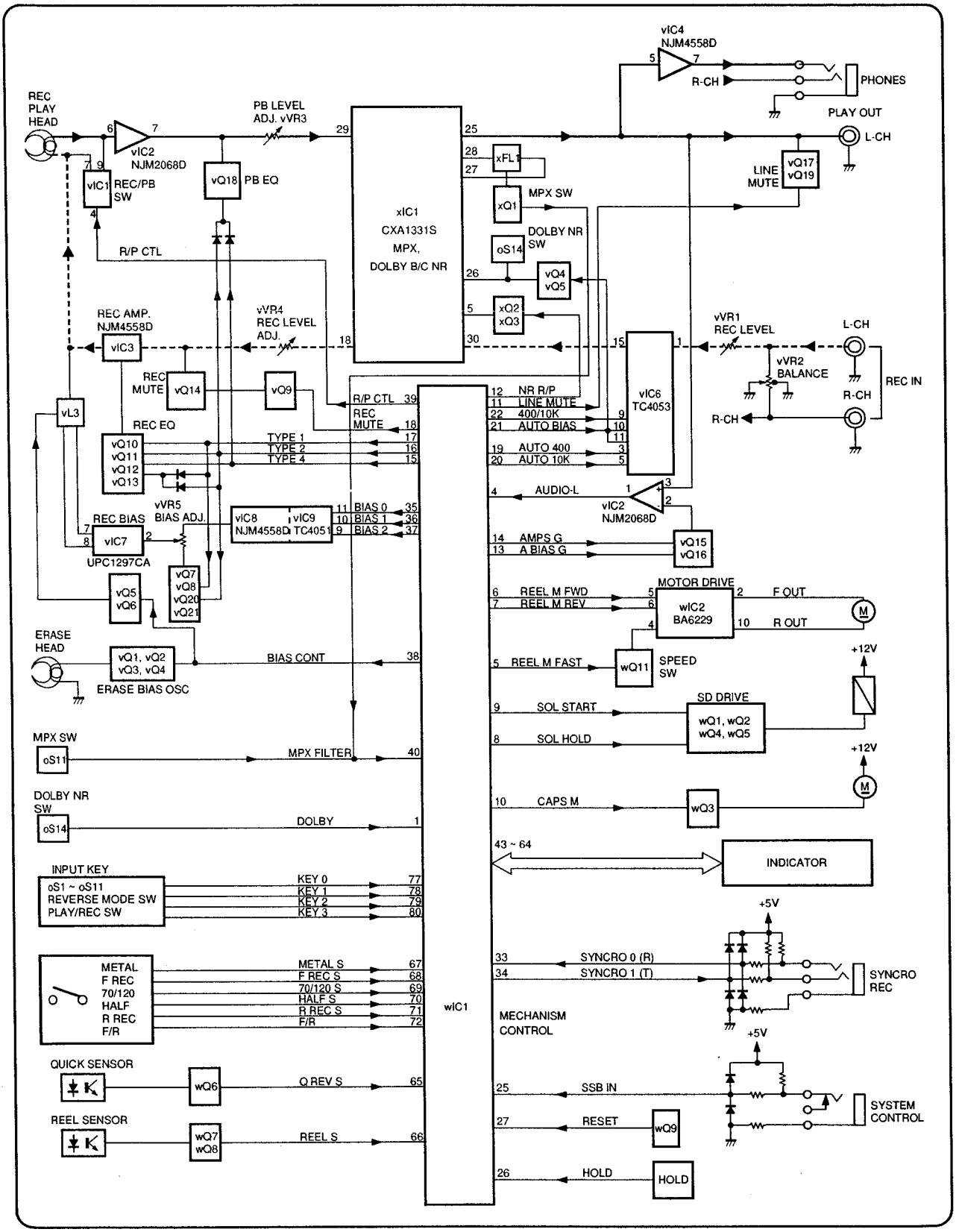
Specifications

Track format ..... 4-track/2-channel system
Tape speed ..... 4.8 cm/sec
Heads
  Rec/play head ..... Hard parmalloy
  Erase head ..... Double-gap ferrite
Motor
  Capstan : Electronically controlled DC motor
  Reels : DC motor
Wow/flutter ..... 0.06 % max (WRMS)
Fast forwarding (rewinding) time
  ..... Approx. 100 sec. (for C-60 tape)
Frequency response (-20 VU recording/playback)
  Normal tape (LH) ..... 30 to 15,000 Hz ±3 dB
  Chrome tape ..... 30 to 16,000 Hz ±3 dB
Metal tape ..... 30 to 17,000 Hz ±3 dB
Signal-to-noise ratio (recording/playback with metal tape)
  DOLBY NR OFF ..... Better than 50 dB
  DOLBY-B NR ON ..... Better than 60 dB
  DOLBY-C NR ON ..... Better than 70 dB
Erasure rate(metal tape) ..... More than 65 dB at 1kHz
Recording bias frequency ..... 105 kHz

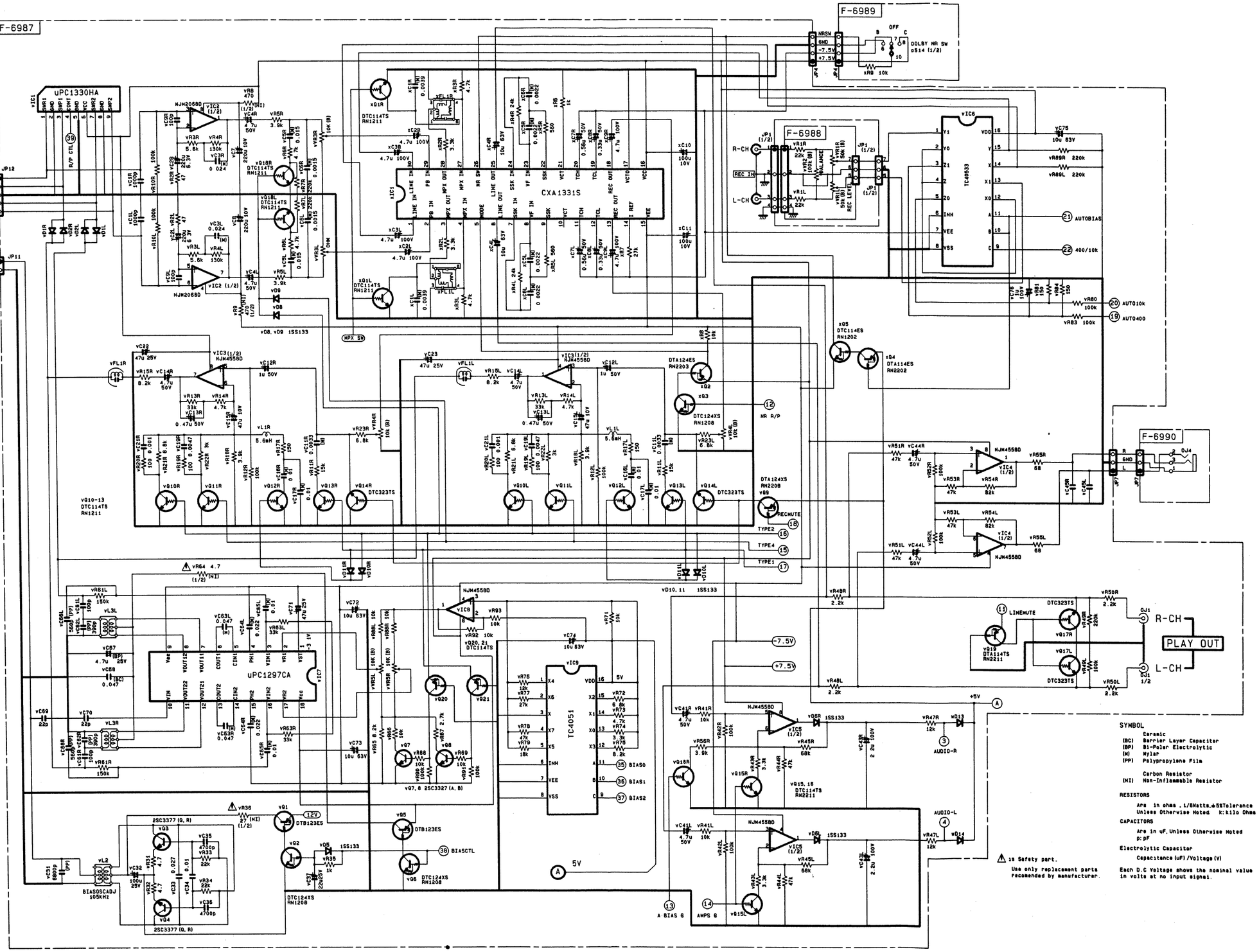
Input sensitivity/Impedance
  LINE IN (REC) ..... 135 mV / 47 kohms
Power requirements ..... 120 V/220 V/240 V (50/60 Hz)
  For U.S.A. and Canada ..... 120 V (60 Hz)
Power consumption ..... 18 watts
Dimensions ..... 430 mm (16-15/16") W
  123 mm (4-7/8") H
  286 mm (11-5/16") D
Weight ..... 4.3 kg (9.5 lbs) net
  5.3 kg (11.7 lbs) packed

- **Design and specifications subject to changes without notice for improvements.**
- **Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selectors.**
- **Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.**
- **"DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.**

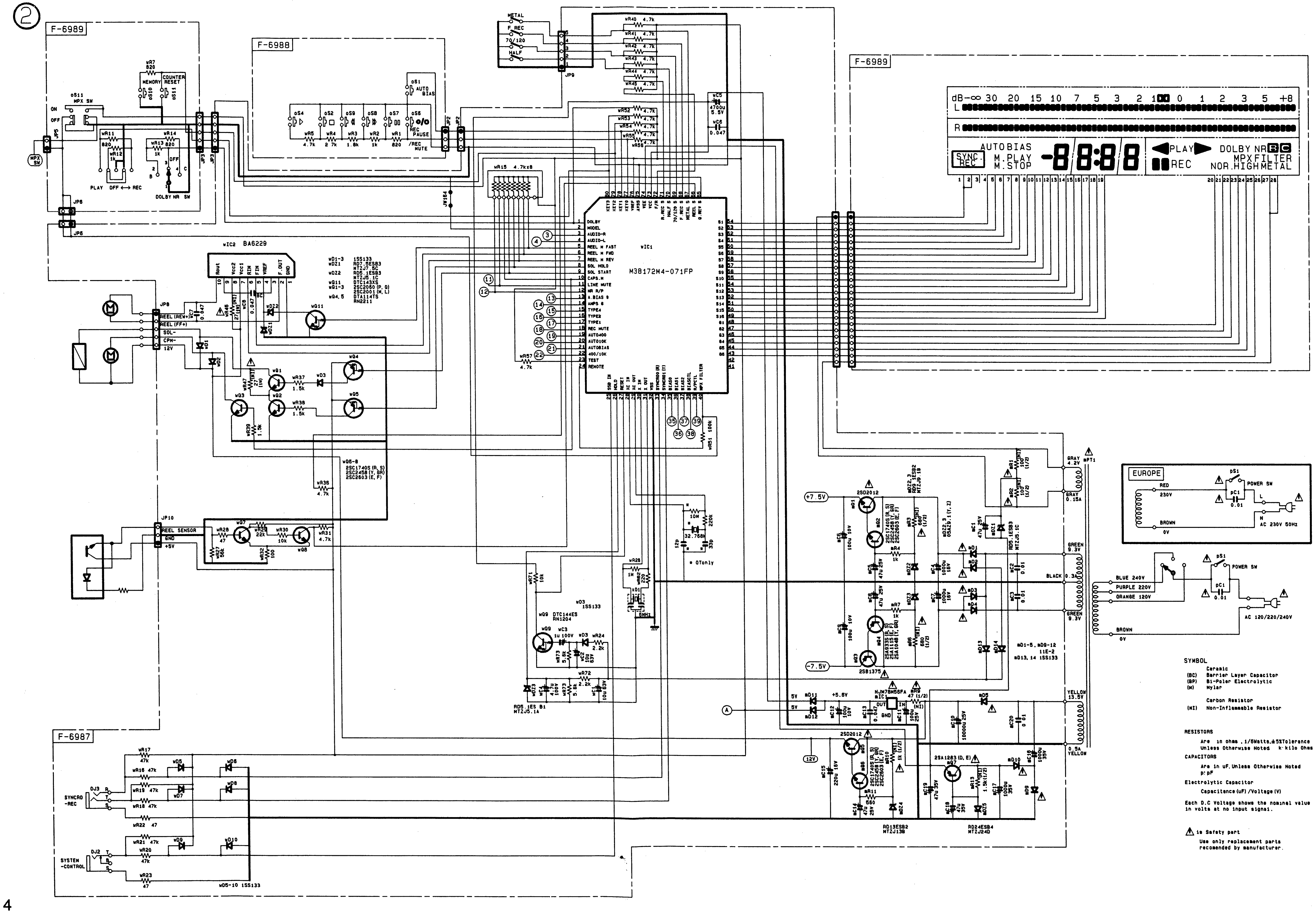
1. BLOCK DIAGRAM



2. SCHMATIC DIAGRAM 2-1. REC/PB SECTION (D-X419HX)



2-2. CONTROL SECTION (D-X419HX)



SYMBOL

	Ceramic
(BC)	Barrier Layer Capacitor
(BP)	Bi-Poler Electrolytic
(M)	Mylar
	Carbon Resistor
(NI)	Non-Inflammable Resistor

RESISTORS

Are in ohms, 1/6Watts,±5%Tolerance Unless Otherwise Noted k: kilo Ohms

CAPACITORS

Are in uF, Unless Otherwise Noted p: pF

Electrolytic Capacitor

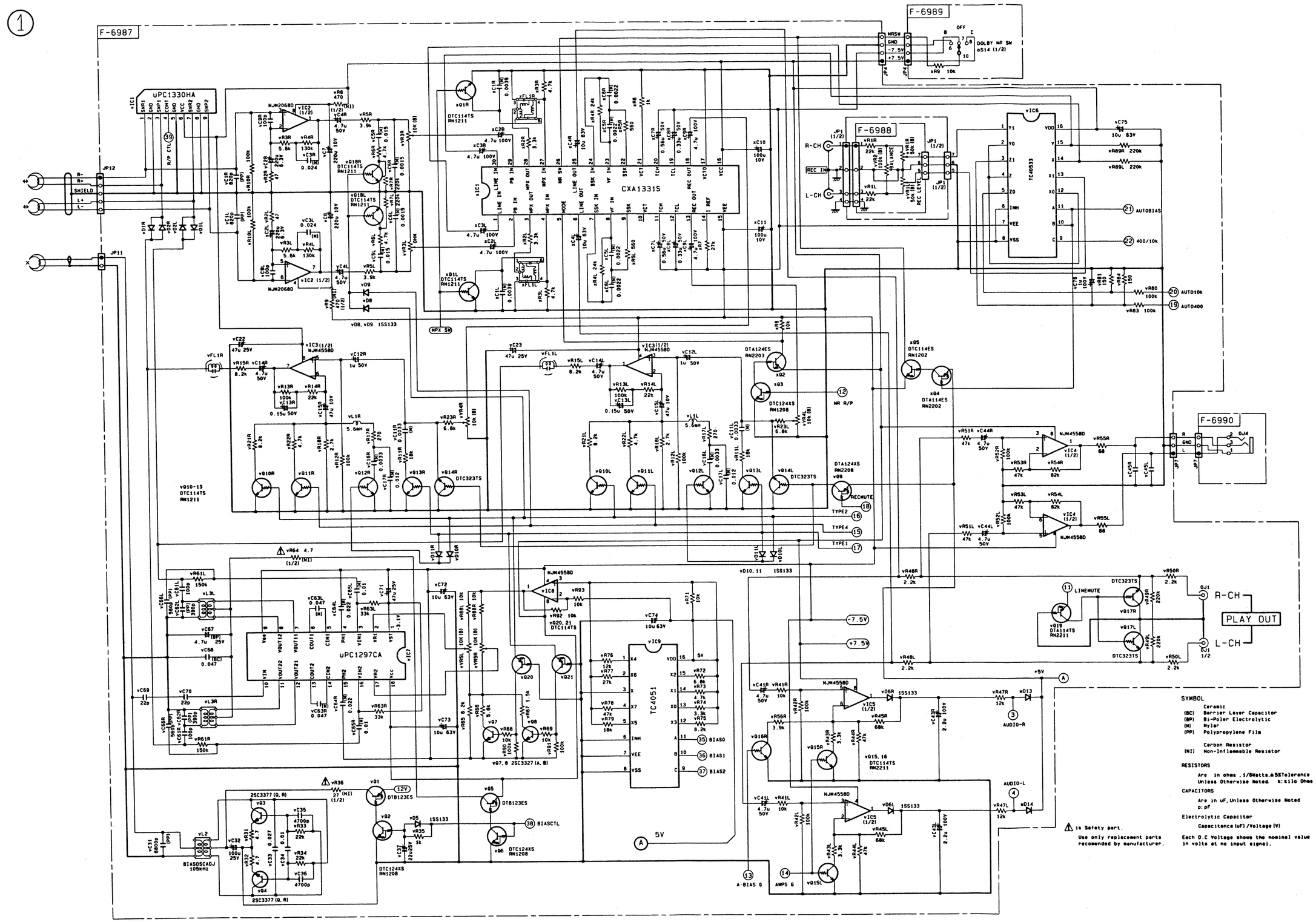
Capacitence (uF) /Voltage (V)

Each D.C Voltage shows the nominal value in volts at no input signal.

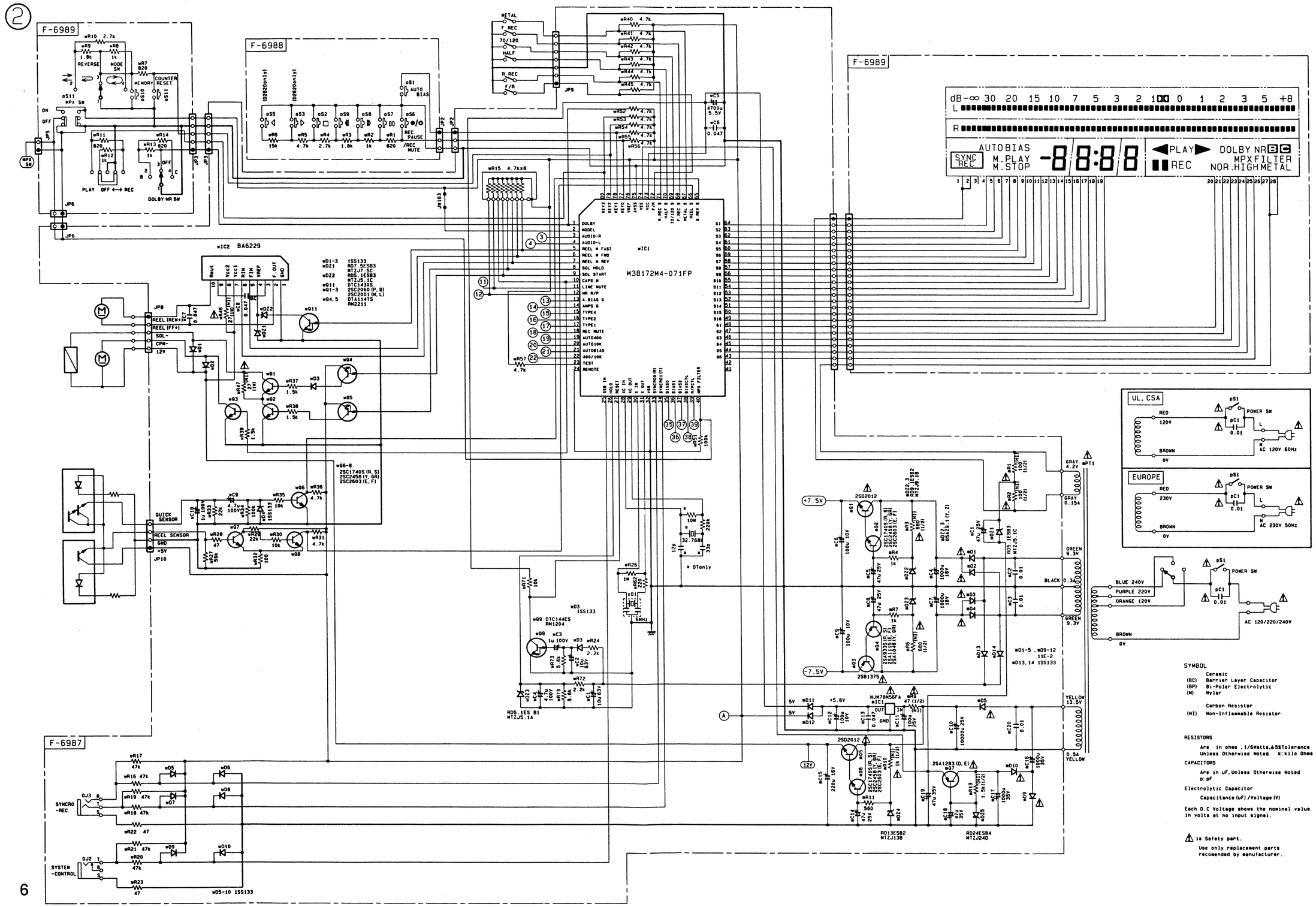
⚠ is Safety part

Use only replacement parts recomended by manufacturer.

2-3. REC/PB SECTION (D-X519HXR)



2-4. CONTROL SECTION (D-X519HXR)

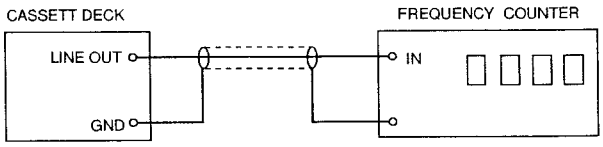


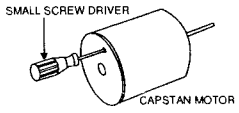
3. ADJUSTMENT

1. Tape Speed Adjustment

Note : 1. Use Sansui Test Tape, SCT-S3KL.
(3kHz signal are recorded on the tape.)
2. Connection are shown in Fig. 1
3. Before adjusting, initially set wVR1, 2, 3, and 4 at their center positions.

Fig. 1



STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1		LINE OUT (L or R) Frequency counter.	Playback the TEST TAPE SCT-S3KL.	Turn semi-variable resistor 	3000Hz±5Hz	

2. Playback Adjustment

Note : 1. Before this adjustment, clean REC/P. B. head surface.
2. For this adjustment, use Sansui Test Tape, SCT-F10K, and SCT-L400N.
3. Set the Dolby NR switch to be OFF.
4. Connections are shown in Fig. 2.
5. Adjust the head at the hole to adjust of the front panel.

FIG. 2

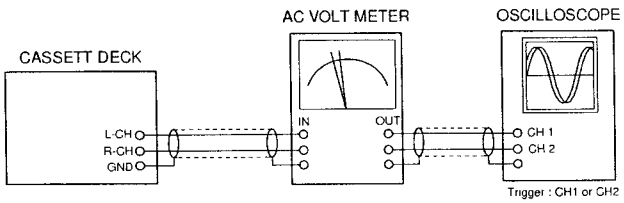
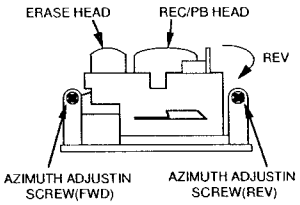


FIG. 3



STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1	Head Adj.	LINE OUT (L or R) AC Volt Meter and Scope.	Playback the TEST TAPE SCT-F10K.	Adjust the azimuth adjusting screw in Fig. 3.	Max.Output both channels on FWD and REW PLAY.	After this adjustment, lock the screw with paint.
2	Playback Level Adj.	LINE OUT (L or R) AC Volt Meter and Scope.	Playback the TEST TAPE SCT-L400N.	Adjust vVR3(L and R).	500mV±1dB	

3. Recording Adjustment

(1) Bias Frequency Adjustment

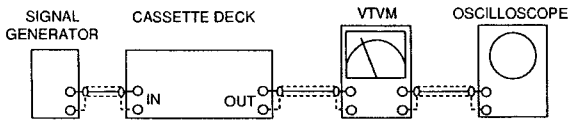
Note : 1. For this adjustment, use Test Tape, AC-513.
2. DOLBY NR Switch to be TYPE C.

STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1	Bias Frequency Adj.	Connect frequency counter to erase head white read of connected JP11.	Load the TEST TAPE AC-513. Push on Rec button.	Turn core of vL2.	105kHz±5kHz	
2	HX-PRO Stepup coil Adj.	Connect the DC Volt meter to vR64(+side and -side).	Same as adove.	Turn core of vL3L and vL3R.	Minmum voltage.	

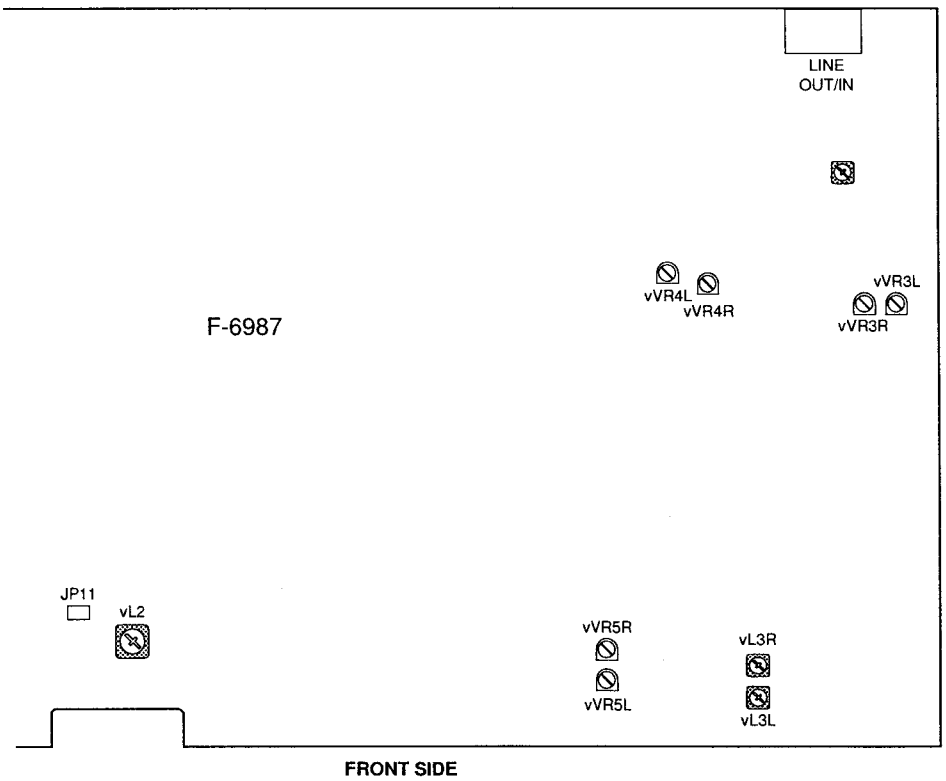
(2) Rec Level Adjustment

Note : 1. For this adjustment, use Test Tape, AC-513.
2. DOLBY NR Switch to be TYPE C.
3. Connections are shown Fig. 4

Fig. 4

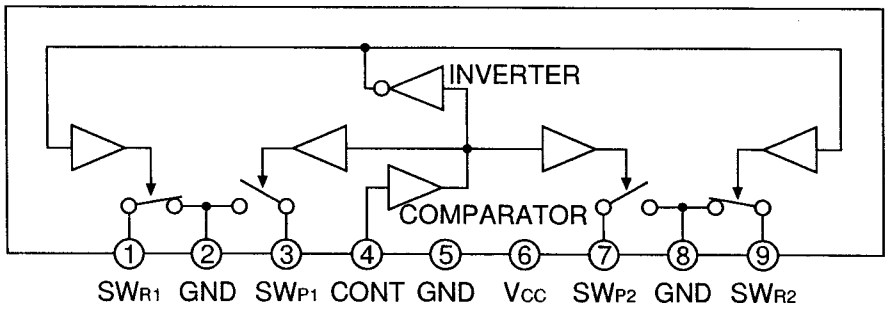


STEP	SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
1	Rec Level Adj. 1kHz.	LINE OUT(L or R) AC Volt Meter and Scope.	Feed 1kHz, 25mV from S.G. into LINE IN.	Load the TEST TAPE AC-513. 1. Rec. the 1kHz signal from S.G. 2. Playback the 1kHz signal.	Confirm Rec signal level within play signal level ±1dB. If not, adjust vVR4(L,R) until ±1dB.	
2	Rec Level Adj. 10kHz.	Same as above.	Same as above.	1. Rec. the 10kHz signal from S.G. 2. Playback the 10kHz signal.	Confirm Rec signal level within play signal level ±1dB. If not, adjust vVR5(L,R) until ±1dB.	

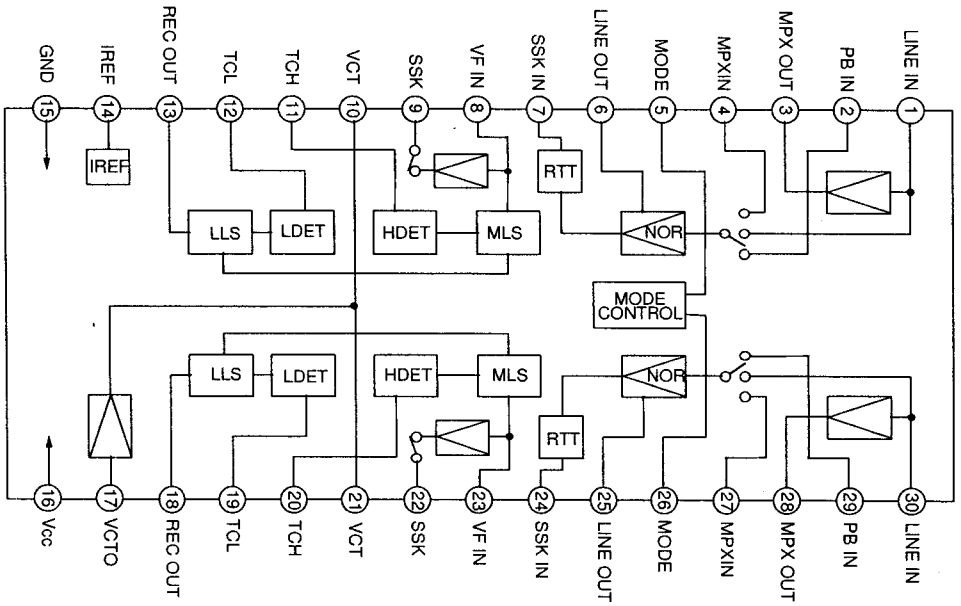


4. INTERIOR BLOCK DIAGRAM & TERMINAL FUNCTION OF ICs

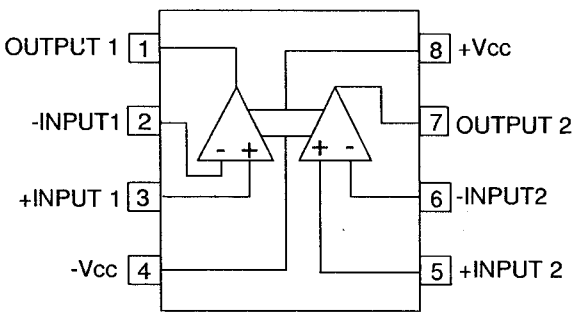
• μPC1330HA <REC/PLAY AMP>



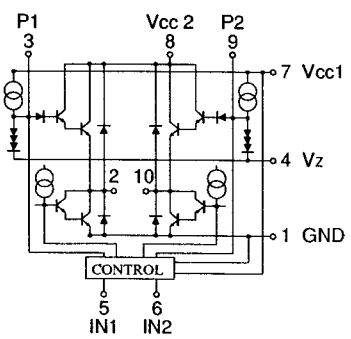
• CXA1331S <B/C TYPE DOLBY NR>


GND IREF REC OUT TCL TCH VCT SSK VF IN SSK IN LINE OUT MODE MPXIN MPX OUT PB IN LINE IN
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
IREF
LLS LDET HDET MLS RTT NOR
MODE CONTROL
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
VCC VCTO REC OUT TCL TCH VCT SSK VF IN SSK IN LINE OUT MODE MPXIN MPX OUT PB IN LINE IN

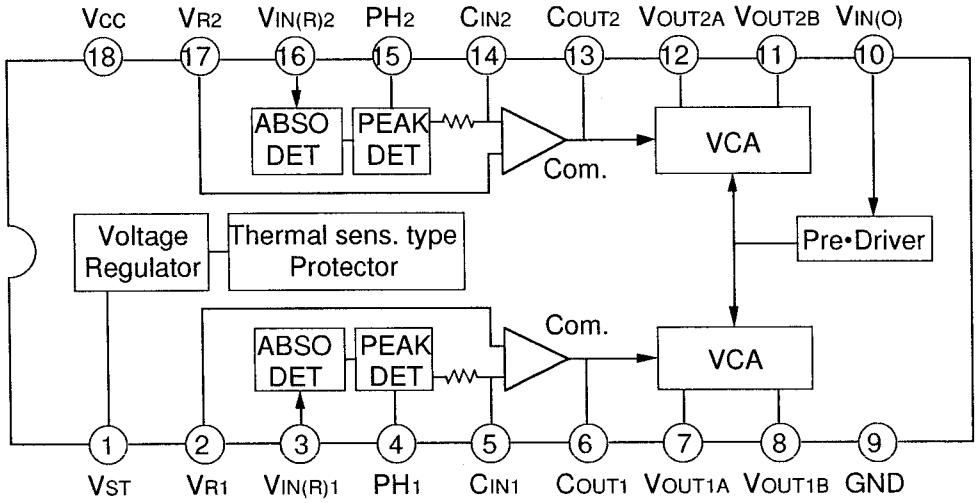
• NJM4558D <OP AMP>



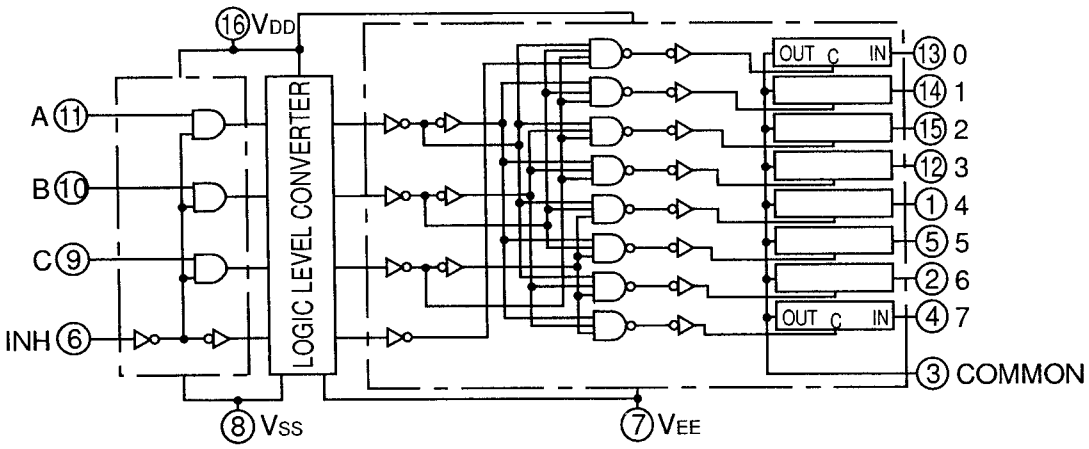
• BA6229 <MOTOR DRV.>



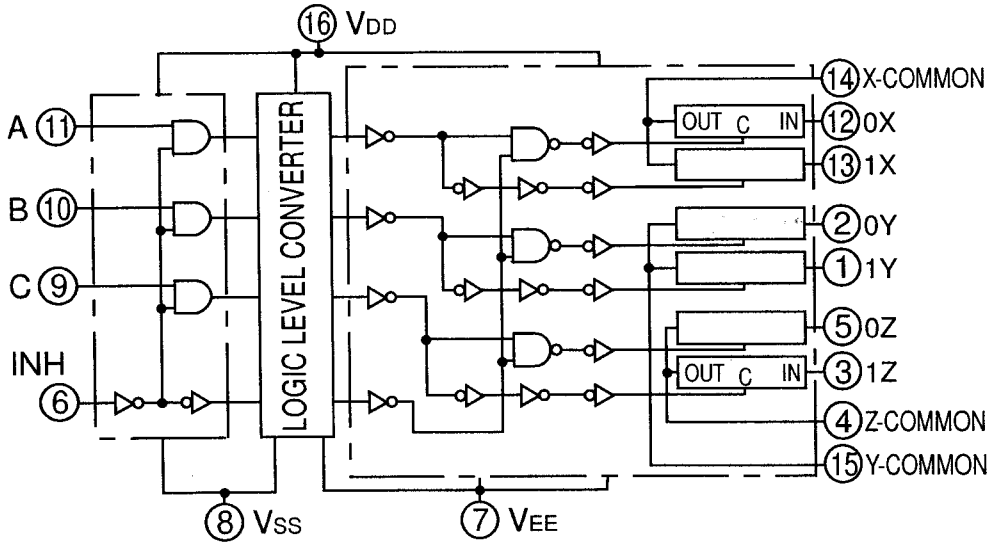
• μPC1297CA <DOLBY HX PRO>



• TC4051 <MULTIPLEXER>



• TC4053 <MULTIPLEXER>



• M38172M4-071FP <SYSTEM CONTROL>

Pin No.	I/O	Function	Active
1	A/D I	DOLBY	
2	A/D I	MODEL	
3	A/D I	AUDIO (R)	
4	A/D I	AUDIO (L)	
5	O	REEL MOTOR FST	L
6	O	REEL MOTOR FWD	H
7	O	REEL MOTOR REV	H
8	O	SOL. START	L
9	O	SOL. HOLD	H
10	O	CAPSTAN MOTOR	L
11	O	LINE MUTE	H
12	O	NR R/P	REC → H
13	O	LEVEL BIAS	H
14	O	LEVEL AMPS	H
15	O	TYPE 4	H
16	O	TYPE 2	H
17	O	TYPE 1	H
18	O	REC MUTE	L
19	O	AUTO 400Hz	
20	O	AUTO 10kHz	
21	O	400/10kHz	400 → H
22	O	AUTO BIAS	L
23	I	TEST	L
24	I	REMOTE	REMO → H
25	I	SSB IN	
26	I	HOLD	
27	I	RESET	
28	I	Xc IN	
29	O	Xc OUT	
30	I	X IN	
31	O	X OUT	

Pin No.	I/O	Function	Active
32		GND	
33	I	SYNCHRO 0 (R)	
34	I	SYNCHRO 1 (T)	
35	O	BIAS 0	
36	O	BIAS 1	
37	O	BIAS 2	
38	O	BIAS CONTROL	REC → L
39	O	R/P CONTROL	H
40	I	MPX FILTER	H
43 | 48	D | D	6 DIGIT	
49 | 64	S | S	16 SEGMENT	
65	I	Q. REV SENSE	
66	I	REEL SENSE	
67	I	TYPE 4 SENSE	
68	I	F. REC SENSE	
69	I	HALF SENSE	
70	I	70/120 SENSE	
71	I	R. REC SENSE	
72	I	F/R	
73		+5V	
74		-40V	
75		GND	
76		+5V	
77	A/D I	KEY 0	
78	A/D I	KEY 1	
79	A/D I	KEY 2	
80	A/D I	KEY 3	

5. PARTS LIST OF BOARD

Notice for Parts

1. Some printed circuit board are not supplied assembled. To separate these in this Service Manual, the stock numbers are not indicated for these boards. However, stock numbers for individual parts are indicated.
2. Since some capacitors and resistors are omitted from parts lists in service manual, refer to the Common Parts List for capacitors and resistors,which was issued on June 1987.
3. Abbreviations in this Parts List are as follows.

Abbreviations List

C.R.	:Carbon Resistor	E.B.L.	:Low Leak Bi-Polar Electrolytic Capacitor
S.R.	:Solid Resistor		
Ce.R.	:Cement Resistor	Ta.C.	:Tantalum Capacitor
M.R.	:Metal Film Resistor	F.C.	:Film Capacitor
F.R.	:Fusing Resistor	M.P.	:Metalized Paper Capacitor
N.I.R.	:Non-Inflammable Resistor	P.C.	:Polystyrene Capacitor
A.R.	:Array Resistor		
C.C.	:Ceramic Capacitor	M.M.C.	:Metalized Mylar Capacitor
C.T.	:Ceramic Capacitor, Temperature Compensation	A.C.	:Array Capacitor
		V.R.	:Variable Resistor
E.C.	:Electrolytic Capacitor	S.V.R.	:Semi Variable Resistor
E.L.	:Low Leak Electrolytic Capacitor	SW.	:Switch
E.B.	:Bi-Polar Electrolytic Capacitor	Chip.R.	:Chip Resistor
		Chip.C.	:Chip Capacitor

F-6987. MAIN BOARD

<Stock No. 01368001> (D-X419HX)
<Stock No. 01368501> (D-X519HXR)

Parts No.	Stock No.	Description
• TRANSISTOR		
⚠ mQ1	49349400	2SD2012 25W
mQ2	46367101	2SC2603
or	46367301	2SC2458
or	48058801	2SC1740S
⚠ mQ3	49349500	2SB1375 25W
mQ4	46367001	2SA1115
or	46367201	2SA1048
or	48058601	2SA 933S
⚠ mQ5	49349400	2SD2012 25W
mQ6	46367101	2SC2603
or	46367301	2SC2458
or	48058801	2SC1740S
⚠ mQ7	46614001	2SA1283
• IC		
⚠ mIC1	49772500	NJM78M56FA
• DIODE		
⚠ mD1	48123600	11E2
or	83035300	11E2
⚠ mD2	48123600	11E2
or	83035300	11E2
⚠ mD3	48123600	11E2
or	83035300	11E2
⚠ mD4	48123600	11E2
or	83035300	11E2
⚠ mD5	48123600	11E2
or	83035300	11E2
⚠ mD9	48123600	11E2
or	83035300	11E2
⚠ mD10	48123600	11E2
or	83035300	11E2

Parts No.	Stock No.	Description
mD11	48123600	11E2
or	83035300	11E2
mD12	48123600	11E2
or	83035300	11E2
mD13	46464100	1SS133
mD14	46464100	1SS133
• ZENER DIODE		
mDZ1	48630900	RD5.1B3 ES
or	49676300	MTZJ5.1C
mDZ2	48633200	RD9.1B2 ES
or	49678000	MTZJ9.1B
mDZ3	48633200	RD9.1B2 ES
or	49678000	MTZJ9.1B
mDZ4	48634800	RD13B2 ES
or	49679300	MTZJ13B
mDZ5	48637500	RD24B4 ES
or	49516200	MTZJ24D
⚠ mR1	49852100	N.I.R. 1/2W 100 Ω
⚠ mR2	49852100	N.I.R. 1/2W 100 Ω
⚠ mR3	49853100	N.I.R. 1/2W 680 Ω
⚠ mR6	49853100	N.I.R. 1/2W 680 Ω
⚠ mR9	49851700	N.I.R. 1/2W 47 Ω
⚠ mR10	49853300	N.I.R. 1/2W 1K Ω
⚠ mR13	49853500	N.I.R. 1/2W 1.5K Ω
mC1	83123300	E.C. 25V 47 μF
mC4	83116900	E.C. 16V 1000 μF
mC5	83123300	E.C. 25V 47 μF
mC6	83122600	E.C. 10V 100 μF
mC7	83116900	E.C. 16V 1000 μF
mC8	83123300	E.C. 25V 47 μF

Parts No.	Stock No.	Description
mC9	83122600	E.C. 10V 100 µF
mC10	83368300	E.C. 25V 10000µF
mC11	83123400	E.C. 25V 100 µF
mC12	83122600	E.C. 10V 100 µF
mC14	83123300	E.C. 25V 47 µF
mC15	83123100	E.C. 16V 220 µF
mC16	83118900	E.C. 35V 1000 µF
mC17	83118900	E.C. 35V 1000 µF
mC18	83123700	E.C. 35V 47 µF
mC19	83123700	E.C. 35V 47 µF
oJ2	48985400	MINI JACK
oJ3	49436400	JACK
oJ1	49622800	TERMINAL BOARD 4P
⚠ pC1	48733500	0.01 µF 400V C.C.
or	49538100	C.C. 400V 0.01 µF
• TRANSISTOR		
vQ1	49353300	DTB123ES
vQ2	48230200	DTC124XS
vQ3	49663401	2SC3377
vQ4	49663401	2SC3377
vQ5	49353300	DTB123ES
vQ6	48230200	DTC124XS
or	49388700	RN1208
vQ7	46604301	2SC3327
vQ8	46604301	2SC3327
vQ9	48229200	DTA124XS
or	49390900	RN2208
vQ10	48223100	DTC114TS
or	49389000	RN1211
vQ11	48223100	DTC114TS
or	49389000	RN1211
vQ12	48223100	DTC114TS
or	49389000	RN1211
vQ13	48223100	DTC114TS
or	49389000	RN1211
vQ14	49918100	DTC323TS
vQ15	48223100	DTC114TS
or	49389000	RN1211
vQ16	48223100	DTC114TS
or	49389000	RN1211
vQ17	49918100	DTC323TS
vQ18	48223100	DTC114TS
or	49389000	RN1211
vQ19	48229400	DTA114TS
or	49391200	RN2211
vQ20	48229400	DTA114TS
or	49391200	RN2211
vQ21	48229400	DTA114TS
or	49391200	RN2211

Parts No.	Stock No.	Description
• IC		
vIC1	49323500	µPC1330HA
vIC2	49264000	NJM2068D-D RIAAOP
vIC3	07208900	NJM4558D-X
vIC4	07208900	NJM4558D-X
vIC5	07208900	NJM4558D-X
vIC6	46545800	TC4053BP
or	48353000	BU4053B
vIC7	49323400	UPC1297CA HX PRO
vIC8	07208900	NJM4558D-X
vIC9	49362200	TC4051BP
• DIODE		
vD1	46464100	1SS133
vD2	46464100	1SS133
vD5	46464100	1SS133
vD6	46464100	1SS133
vD8	46464100	1SS133
vD9	46464100	1SS133
vD10	46464100	1SS133
vD11	46464100	1SS133
vR8	49852900	N.I.R. 1/2W 470 Ω
vR9	49852900	N.I.R. 1/2W 470 Ω
⚠ vR36	49851400	N.I.R. 1/2W 27 Ω
⚠ vR64	49850500	N.I.R. 1/2W 4.7 Ω
vC2	83122300	E.C. 6.3V 220 µF
vC4	83125100	E.C. 100V 4.7 µF
or	83368200	E.C. 100V 4.7µF
vC7	83122700	E.C. 10V 220 µF
vC8	83122700	E.C. 10V 220 µF
vC12	83124800	E.C. 100V 1 µF
vC13	83124700	E.C. 100V 0.47 µF (D-X419HX)
vC14	83125100	E.C. 100V 4.7 µF
or	83368200	E.C. 100V 4.7µF
vC15	83123300	E.C. 25V 47 µF
vC22	83123300	E.C. 25V 47 µF
vC23	83123300	E.C. 25V 47 µF
vC32	83123400	E.C. 25V 100 µF
vC37	83123900	E.C. 50V 22 µF
vC41	83125100	E.C. 100V 4.7 µF
or	83368200	E.C. 100V 4.7µF
vC43	83124900	E.C. 100V 2.2 µF
vC44	83125100	E.C. 100V 4.7 µF
or	83368200	E.C. 100V 4.7µF
vC67	83131900	E.C. 25V 4.7 µF
vC71	83123300	E.C. 25V 47 µF
vC72	83124300	E.C. 63V 10 µF
vC73	83124300	E.C. 63V 10 µF
vC74	83124300	E.C. 63V 10 µF
vC75	83124300	E.C. 63V 10 µF
vC76	83124800	E.C. 100V 1 µF

Parts No.	Stock No.	Description
vFL1	49594800	TRAP FILTER FB-9
or	83232300	TRAP FILTER FB-9
vL1	49612500	INDUCTOR
or	83292500	INDUCTOR
vL2	49917010	INDUCTOR
or	83364600	INDUCTOR BIAS OSC COIL
vL3	49711800	INDUCTOR STEP COIL
or	83298000	INDUCTOR STEP COIL
vVR3	49367100	10 K S.V.R.
or	83362900	S.V.R.
vVR4	49367100	10 K S.V.R.
or	83362900	S.V.R.
vVR5	49367100	10 K S.V.R.
or	83362900	S.V.R.
• TRANSISTOR		
wQ1	46359801	2SC2001
or	48000901	2SC2060
wQ2	46359801	2SC2001
or	48000901	2SC2060
wQ3	46359801	2SC2001
or	48000901	2SC2060
wQ4	48229400	DTA114TS
or	49391200	RN2211
wQ5	48229400	DTA114TS
or	49391200	RN2211
wQ6	46367101	2SC2603 (D-X519HXR)
or	46367301	2SC2458
or	48058801	2SC1740S
wQ7	46367101	2SC2603
or	46367301	2SC2458
or	48058801	2SC1740S
wQ8	46367101	2SC2603
or	46367301	2SC2458
or	48058801	2SC1740S
wQ9	46834300	DTC144ES
or	49388300	RN1204
wQ11	48230800	DTC143XS
wQ12	48229200	DTA124XS
or	49390900	RN2208
• IC		
wIC1	49921800	M38172M4-071FP
wIC2	49473800	BA6229
wXO1	49357500	QUARTZ ELEMENT CST6.00MGW
or	83367400	QUARTZ ELEMENT
• DIODE		
wD1	46464100	1SS133
wD2	46464100	1SS133
wD3	46464100	1SS133
wD4	46464100	1SS133 (D-X519HXR)
wD5	46464100	1SS133

Parts No.	Stock No.	Description
wD6	46464100	1SS133
wD7	46464100	1SS133
wD8	46464100	1SS133
wD9	46464100	1SS133
wD10	46464100	1SS133
wD11	46464100	1SS133
wD13	46464100	1SS133
wD14	46464100	1SS133
• ZENER DIODE		
wDZ1	48632500	RD7.5B3 ES
or	49677500	MTZJ7.5C
wDZ2	48630900	RD5.1B3 ES
or	49676300	MTZJ5.1C
wDZ3	48630700	RD5.1B1 ES
or	49676100	MTZJ5.1A
wR15	48773200	A.R. 8X 4.7 KΩ
⚠ wR46	49864600	N.I.R. 1W 27 Ω
⚠ wR47	49864600	N.I.R. 1W 27 Ω
wC1	83124300	E.C. 63V 10 µF
wC2	83124300	E.C. 63V 10 µF
wC3	83124800	E.C. 100V 1 µF
wC4	83125100	E.C. 100V 4.7 µF
or	83368200	E.C. 100V 4.7µF
wC5	48717900	E.C. 5.5V 4.7 µF
wC9	83125100	E.C. 100V 4.7 µF (D-X519HXR)
or	83368200	E.C. 100V 4.7µF
wC10	83124800	E.C. 100V 1 µF (D-X519HXR)
• TRANSISTOR		
xQ1	48223100	DTC114TS
or	49389000	RN1211
xQ2	46719800	DTA124ES
or	49390400	RN2203
xQ3	48230200	DTC124XS
or	49388700	RN1208
xQ4	48229600	DTA114ES
or	49390300	RN2202
xQ5	48217800	DTC114ES
or	49388100	RN1202
• IC		
xIC1	49562000	CXA1331S
xC2	83125100	E.C. 100V 4.7 µF
or	83368200	E.C. 100V 4.7µF
xC3	83125100	E.C. 100V 4.7 µF
or	83368200	E.C. 100V 4.7µF
xC4	83124300	E.C. 63V 10 µF
xC7	49522600	E.C. 50V 0.56 µF
xC9	83125100	E.C. 100V 4.7 µF
or	83368200	E.C. 100V 4.7µF
xC10	83122600	E.C. 10V 100 µF

Parts No.	Stock No.	Description
xC11	83122600	E.C. 10V 100 µF
xFL1	49598500	DOLBY FILTER
or	83232200	DOLBY FILTER FB-7DG

F-6988. CONTROL SW & LEVEL VR BOARD

Parts No.	Stock No.	Description
oS1	49326300	PUSH SW. SKHVBF 5H160G
or	49326301	PUSH SW.
oS2	49326300	PUSH SW. SKHVBF 5H160G
or	49326301	PUSH SW.
oS3	49326300	PUSH SW. SKHVBF 5H160G (D-X519 HXR)
or	49326301	PUSH SW.
oS4	49326300	PUSH SW. SKHVBF 5H160G (D-X419 HXR)
or	49326301	PUSH SW.
oS5	49326300	PUSH SW. SKHVBF 5H160G (D-X519 HXR)
or	49326301	PUSH SW.
oS6	49326300	PUSH SW. SKHVBF 5H160G
or	49326301	PUSH SW.
oS7	49326300	PUSH SW. SKHVBF 5H160G
or	49326301	PUSH SW.
oS8	49326300	PUSH SW. SKHVBF 5H160G
or	49326301	PUSH SW.
oS9	49326300	PUSH SW. SKHVBF 5H160G
or	49326301	PUSH SW.
vVR1	49326400	50KBX2 V.R.
or	83362100	V.R.
vVR2	49556100	100K V.R.
or	83362000	V.R.

F-6989. DOLBY SW BOARD

Parts No.	Stock No.	Description
nFL1	49917400	
oS10	49326300	PUSH SW. SKHVBF 5H160G
or	49326301	PUSH SW.
oS11	49326300	PUSH SW. SKHVBF 5H160G
or	49326301	PUSH SW.
oS12	46178400	SLIDE SW.
oS13	49917200	ROTARY SW. (D-X519HXR)
oS14	49917200	ROTARY SW.
oS15	46563500	PUSH SW.

F-6990. HEAF PHONE JACK BOARD

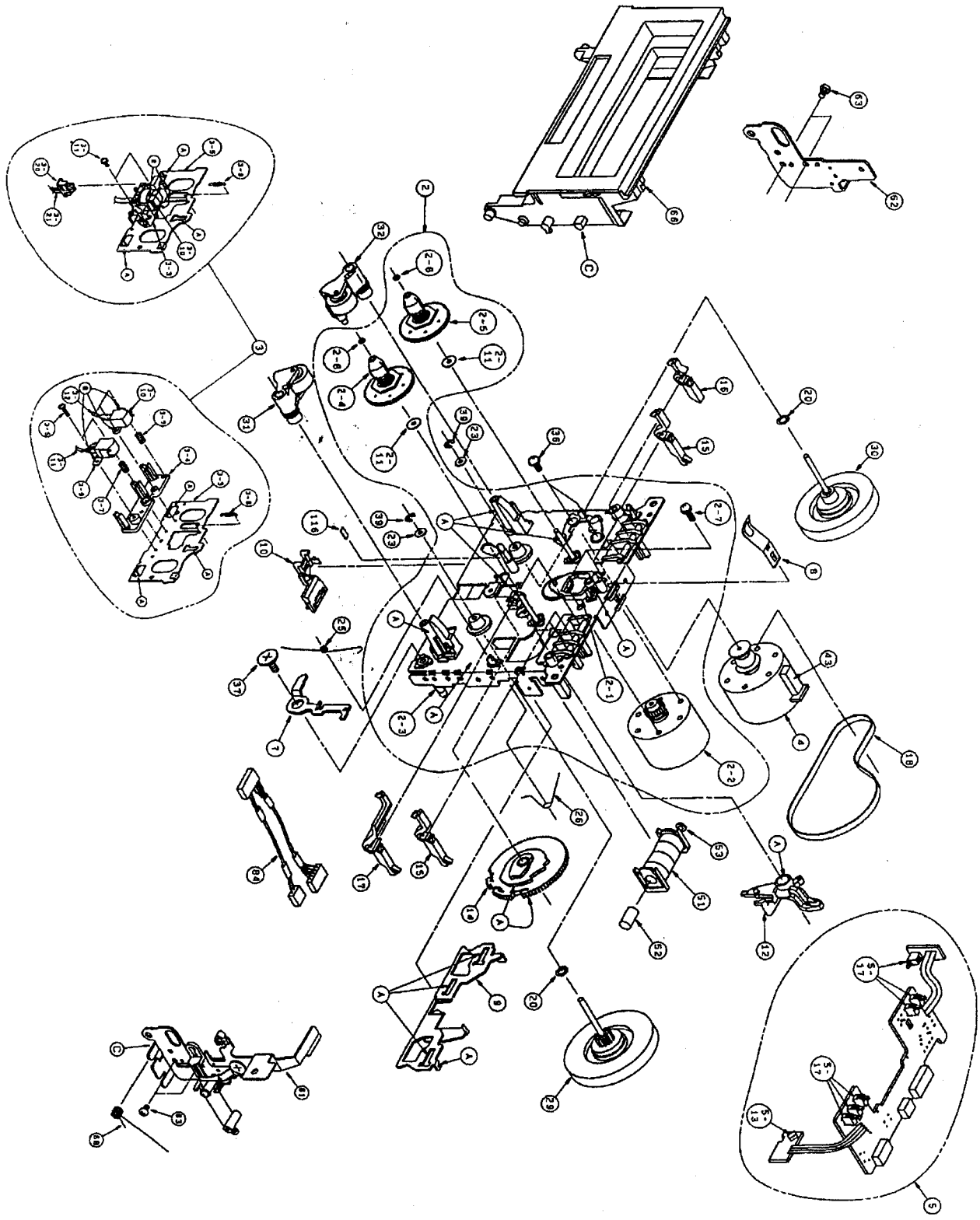
Parts No.	Stock No.	Description
oJ4	49495100	JACK

FIXED PARTS

Parts No.	Stock No.	Description
⚠ mPT1	83335809	POWER TRANSFORMER (XX, SS)
	83335805	POWER TRANSFORMER (EU)
	83335802	POWER TRANSFORMER (UL, CSA) D-X519HXR
⚠ pS1	46364300	PUSH SW.
⚠ pZ1	38004700	POWER SUPPLY CORD 10A (XX)
	48837700	POWER SUPPLY CORD 6A (SS)
	49299300	POWER SUPPLY CORD 10A (EU)
	04858500	POWER SUPPLY CORD 10A (UL, CSA) D-X519HXR

6. EXPLODED VIEW OF MECHANISM AND PARTS LIST

6-1. EXPLODED VIEW



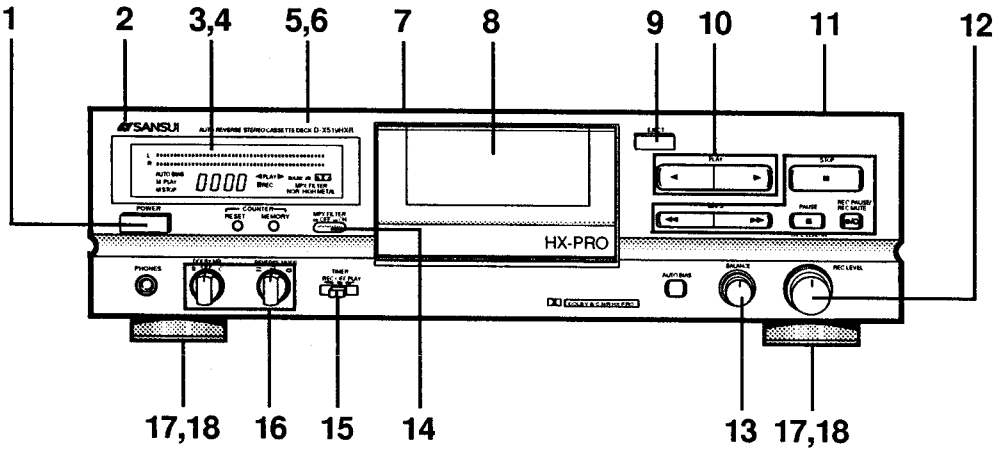
6-2. PARTS LIST

D-X519HXR MECHA(CMAY1Z3) <Stock No. 49913700>
D-X419HX MECHA(CMAY5Z3) <Stock No. 49913800>

Parts No.	Stock No.	Description
2		Main Chassis Ass'y
2-1	58731700	Idler Ass'y
2-2	58731800	Reel Motor Ass'y
2-3		Chassis Base Ass'y
2-4	58732000	ReelBase Ass'y R
2-5	58732100	ReelBase Ass'y F
2-7	58732200	M2.6x6.4 Pan. Head Screw
2-8	58732300	Slit Washer (1.7x0.25)
2-11	58732400	Thrust Washer (2x0.25)
3	58736900	Head Base Ass'y (D-X519HXR)
	58732500	Head Base Ass'y (D-X419HX)
3-5	58732800	M2.0x9 Pan. Head Screw (D-X419HX)
3-6	58732900	Nylon Washer (2.1x.0.25) (D-X419HX)
3-7	58733000	Spring, Azimuth (D-X419HX)
3-8	58733100	Spring Head Base
3-9	58733300	Erase Head (D-X419HX)
3-10	58898000	Rec./Play/Erase Head Ass'y (D-X519HXR)
	58733200	Rec./Playback Head Ass'y (D-X419HX)
3-11	58733400	Wire Conector (R/P) (D-X419HX)
3-12	58733500	Wire Conector (Erase) (D-X419HX)
3-13	58737200	M2x5 Pan. Tapping Screw (D-X519HXR)
3-20	58891000	Photo Sensor SPI320BC (D-X519HXR)
3-21	58737400	QS Lead Wire (D-X519HXR)
4	58891100	Motor Ass'y Capstan
5	58972300	P.C.B. (Control) (D-X519HXR)
	58972400	P.C.B. (Control) (D-X419HX)
5-13	58737700	Photo Sensor GP2S04B (D-519HXR)
	58972500	Photo Sensor SG-107F3 (D-419HX)
5-17	58734000	Push Switch)
8	58734200	Cassette Hold Spring
10	58738000	Lead Holder (D-X519HXR)
12	58734300	Play Arm
14	58898600	Cam Gear
15	58898700	Switch Arm A
16	58734600	Switch Arm B
17	58972600	Switch Arm C
18	58738100	Belt (D-X519HXR)
	58734800	Belt (D-X419HX)
20	58734900	Thrust Washer (2.6x0.25)
23	58735000	Nylon Washer (D=2.6x0.5)
25	58735100	Spring
26	58735200	Slide Spring
29	58735300	Flywheel Ass'y F
30	58738200	Flywheel Ass'y R (D-X519HXR)
31	58735400	Pinch Roller Ass'y F
32	58891400	Pinch Roller Ass'y R (D-X519HXR)
36	58735500	M2.6x5 Pan. Head Screw
37	58899000	Special Screw
39	58735700	E-type Ring
40	58735800	M3x8 Screw (D-X419HX)
51	58735900	Solenoid Ass'y
52	58736000	Fix Core

7. OTHER PARTS

• FRONT VIEW



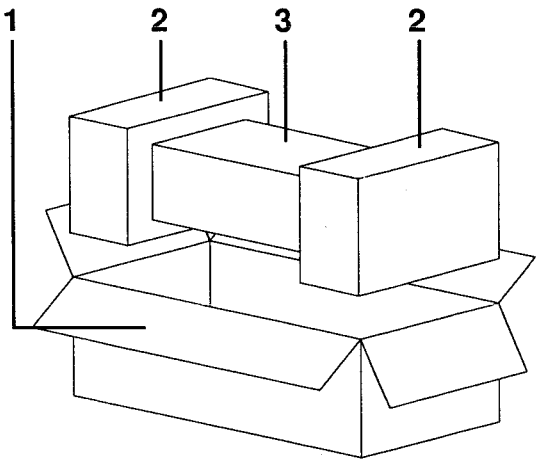
Parts No.	Stock No.	Description
1	85053710	KNOB, POWER
2	05051200	LOGO BADGE H5 G
3	85113700	DIAL SCALE PLATE
4	85132500	DIAL SCALE FILTER
5	05229100	FRONT PANEL (D-X419HX)
	05229200	FRONT PANEL (D-X519HXR)
6	85112400	PLA PANEL
7	85120300	BONNET
8	85112500	LID COVER (D-X419HX)
	85132400	LID COVER (D-X519HXR)
9	85112800	KNOB, EJECT

Parts No.	Stock No.	Description
10	85112600	KNOB, ► (D-X419HX)
	85112700	KNOB, ◄/► (D-X519HXR)
11	85113400	KNOB, ■/◄◄/►►/II/O
12	85112900	KNOB, REC LEVEL
13	85113000	KNOB, BALANCE
14	85113200	KNOB, MPX FILTER
15	85113300	KNOB, TIMER
16	85113100	KNOB, DOLBY NR/REVERCE MODE
17	85047300	LEG
18	84650100	LEG SHEET

8. PACKING & ACCESSORY LIST

• PACKING LIST

Parts No.	Stock No.	Description
1	85114600	CARTON CASE (D-X419HX)
	85114700	CARTON CASE (D-X519HXR)
2	85114500	STYROFOAM PACKING
3	85129400	POLY BAG 500



• ACCESSORY LIST

Parts No.	Stock No.	Description
	48802100	PJP CORD (100CM)
	83363700	NJM CORD 2C1.1M BLK
	82029800	OPERATING INSTRUCTIONS (E, S, T) (D-X419HX)
	82029900	OPERATING INSTRUCTIONS (8L) (D-X419HX)
	82030000	OPERATING INSTRUCTIONS (E, S, T) (D-X519HXR)
	82030100	OPERATING INSTRUCTIONS (8L) (D-X519HXR)
	82030200	OPERATING INSTRUCTIONS (E, F, S, T) (D-X519HXR)

• NOTE

E, S, T : English, Spanish and Old Chinese Character Version.
8L : English, French, Spanish, German, Italian, Swedish, Portuguese and Netherlands Version.
E, F, S, T : English, French, Spanish and Old Chinese Character Version.